

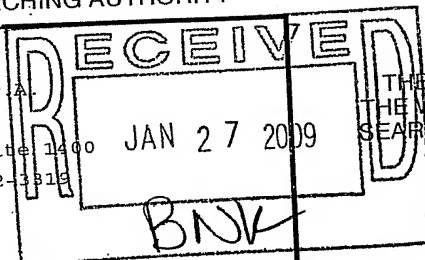
PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL SEARCHING AUTHORITY

To:

WESTMAN, CHAMPLIN & KELLY, P.A.
Attn. Rego, Alan G.
900 Second Avenue South, Suite 1400
Minneapolis, Minnesota 55402-3818
ETATS-UNIS D'AMERIQUE



NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference C382.13-0190/JKC		Date of mailing (day/month/year) 26/01/2009												
International application No. PCT/US2008/008702		FOR FURTHER ACTION See paragraphs 1 and 4 below												
Applicant MIDTRONICS, INC.		International filing date (day/month/year) 17/07/2008												
<table border="1"> <tr> <td>DOCKETED</td> <td>3-26-09</td> <td>ART. 17</td> </tr> <tr> <td>RESPONSE DUE</td> <td>4-28-09</td> <td>W.O.</td> </tr> <tr> <td>CALENDARED</td> <td>4-28-09</td> <td>IDS</td> </tr> <tr> <td>CHECKED BY ATTY</td> <td>4-26-09</td> <td>U.S. only</td> </tr> </table>			DOCKETED	3-26-09	ART. 17	RESPONSE DUE	4-28-09	W.O.	CALENDARED	4-28-09	IDS	CHECKED BY ATTY	4-26-09	U.S. only
DOCKETED	3-26-09	ART. 17												
RESPONSE DUE	4-28-09	W.O.												
CALENDARED	4-28-09	IDS												
CHECKED BY ATTY	4-26-09	U.S. only												

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cornelia Schulze

(See notes on accompanying sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1–10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 *bis*(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43 *bis*.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, Volume II.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference C382.13-0190/JKC	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2008/008702	International filing date (day/month/year) 17/07/2008	(Earliest) Priority Date (day/month/year) 17/07/2007
Applicant MIDTRONICS, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

☒

the international application in the language in which it was filed

☐

a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

Certain claims were found unsearchable (See Box No. II)

3. ☐

Unity of invention is lacking (see Box No III)

4. With regard to the **title**,

☒

the text is approved as submitted by the applicant

☐

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒

the text is approved as submitted by the applicant

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 4

☒

as suggested by the applicant

☐

as selected by this Authority, because the applicant failed to suggest a figure

☐

as selected by this Authority, because this figure better characterizes the invention

b. ☐ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/008702

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01R31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 38 324 A1 (DAIMLER BENZ AG [DE]) 27 November 1997 (1997-11-27) the whole document	1-44
X	BIMAL K BOSE: "A Microprocessor-Based Control System for a Near-Term Electric Vehicle" IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 43, no. 6, 1 November 1981 (1981-11-01), pages 626-631, XP011213037 ISSN: 0093-9994 the whole document	1,3-44

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

13 January 2009

Date of mailing of the international search report

26/01/2009

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Koll, Hermann

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/008702

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MILLER J M ET AL: "DSP applications in hybrid electric vehicle powertrain" AMERICAN CONTROL CONFERENCE, 1999. PROCEEDINGS OF THE 1999 SAN DIEGO, CA, USA 2-4 JUNE 1999, PISCATAWAY, NJ, USA, IEEE, US, vol. 3, 2 June 1999 (1999-06-02), pages 2137-2138, XP010344595 ISBN: 978-0-7803-4990-2 the whole document -----	1,3-44
X	US 5 430 645 A (KELLER A SCOTT [US]) 4 July 1995 (1995-07-04) the whole document -----	1-44
A	US 5 387 871 A (TSAI WEI-JEN [TW]) 7 February 1995 (1995-02-07) abstract -----	12,13, 34,35

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/008702

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19638324	A1	27-11-1997	NONE	
US 5430645	A	04-07-1995	NONE	
US 5387871	A	07-02-1995	NONE	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

To:

see form PCT/ISA/220

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/US2008/008702

International filing date (day/month/year)
17.07.2008

Priority date (day/month/year)
17.07.2007

International Patent Classification (IPC) or both national classification and IPC
INV. G01R31/00

Applicant
MIDTRONICS, INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - Gitschiner Str. 103
D-10958 Berlin
Tel. +49 30 25901 - 0
Fax: +49 30 25901 - 840

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Koll, Hermann

Telephone No. +49 30 25901-645



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2008/008702

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in electronic form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2008/008702

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>12, 13, 21, 34, 35, 43</u>
	No: Claims	<u>1-11, 14-20, 22-33, 36-42, 44</u>
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-44</u>
Industrial applicability (IA)	Yes: Claims	<u>1-44</u>
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

Reference is made to the following documents:

D1: DE-19638324 A (Daimler Benz Aktiengesellschaft) 27.11.1997

D2: XP-11213037 Bimal: "A microprocessor based control system for a near-term electric vehicle", IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, PISCATAWAY, NJ, US, 01.11.1981

D3: XP-10344595, Miller et al.: "DSP Applications in hybrid electric vehicle powertrain", American Control Conference, Proceedings of the 1999 San Diego, CA, USA 2-4 June 1999, Piscataway, NJ, USA, IEEE, US

D4: US-5430645 A (Keller) 04.07.1995

D5: US-5387871 A (Tsai) 07.02.1995

Lack of novelty

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-11, 14-20, 22-33, 36-42 and 44 is not new in the sense of Article 33(2) PCT.

Claim 1: The document D1 discloses a method of testing an electrical system (see col. 1, l. 3-5) of an electric vehicle (see col. 1, l. 5, whereby the expression "Fahrzeug" incorporates also electrical vehicles), comprising:

- operating the electric vehicle (see col. 1, l. 40-45, "... Anweisungen ... Fahr- oder Bremspedals", see also claim 1, col. 5, l. 21-23);
 - coupling to a databus (see Fig. 2, (3), see also col. 3, l. 24) of the electric vehicle (2);
 - monitoring data on the data bus and retrieving information related to current (see col. 1, l. 55, "Stromaufnahme") flowing into the system of the electric vehicle during the step of operating;
 - monitoring data on the databus and retrieving information related to a voltage (see col. 1, l. 59) of the system during the step of operating; and
- diagnosing the electric vehicle based upon the monitored current and the monitored voltage.

Similar arguments can be found in the following documents:

D2: testing an electrical system (see abstract, l. 5, "diagnostics"), electric vehicle (see title), operating the electric vehicle (see p. 628, col. 1, section IV, l. 3, which implies the operation of the vehicle), databus, measured current (see p. 628, col. 1, section IV, l. 3), measured voltage (see p. 628, col. 1, section IV, l. 3), diagnosing (see p. 628, col. 1, section IV or see p. 630, col. 1, section VI, l. 19-24)

D3: testing an electrical system (Fig. 1 +), electric vehicle (see title), measured current + voltage (see p. 2138, col. 1, par. 2, last two lines, "currents and voltages"), diagnosing (see p. 2137, col. 1, par. 2, last line, "diagnostics")

D4: testing an electrical system (see col. 2, l. 2, "evaluating electric vehicles", see Fig. 3, "100"), operating the electric vehicle (see col. 2, l. 4-5, "robot controlled means operator"), databus, measured current and voltage (col. 4, l. 67), diagnosing (see e.g. col. 4, l. 65-67 "end of test determination" which is equivalent to a low SOC; or see col. 4, l. 60, "stalled actuator motor")

Claim 25 represents a system according to the method described in claim 1. Therefore the argumentation in respect to claim 1 also applies to claim 25.

The subject matter of the following dependent claims is also known from the cited prior art:

Claim 2: see D1, col. 1, l. 41-45, or see D4, wherein the operator is an robot+ a human operator (see col. 2, l. 4-5)

Claim 3, 26: see D4, col. 4, l. 65-68, whereby determining a low SOC of the battery based on a measured current and voltage implies at least comparing a function of said current and voltage with reference values.

Claim 4: see D1, Fig. 1, "10"

Claim 5, 27: see D1, Fig. 1, "3", or see D3, p. 2137, col. 1, last par. l. 9, "OBD II"

Claim 6, 28: see the vehicle test systems in D1-3, see D4, col. 4, last par.

Claim 7, 29: see D1, the title already indicates the test of a plurality of electrical systems, see also D2-4

Claim 8, 30: see D4, col. 8, l. 60-61,

Claim 8-10, 20, 30-32, 42: D2, p. 628, col. 1, last par. "fuel-gaging during .. charging" in combination with p. 626, col. 2, second line from the bottom, "regeneration"

Claim 11, 33: see D1-D4 which are all dealing with testing of vehicles

Claim 14, 15, 36, 37: see argumentation in respect to claim 1, whereby the measured voltage or current is such a parameter, which might change and which is therefore also dynamic

Claim 16, 17, 38, 39: see D1, col. 1, l. 40-41, "Bildschirm"

Claim 18, 19, 40, 41: see D3, title

Claim 22, 23, 44: see D2, p. 626, col. 1, par. 2, "the microprocessor functions propulsion control ... drive sequencing control diagnosis": therefore the information on the databus/ microprocessor are used for diagnosis as well as for control of the vehicle or a system thereof

Claim 24: see e.g. D2, col. 1, par. 2, "fuel gaging", which is such an information; moreover such driving assistance is normally used in all modern cars

Lack of inventive step

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 12, 13, 21, 34, 35 and 43 does not involve an inventive step in the sense of Article 33(3) PCT.

Claim 12, 13, 34, 35: Testing batteries by monitoring individual cells or groups thereof is well known (e.g. from D5, see abstract, last phrase). Therefore it would have been obvious for a skilled person to implement such common battery monitoring methods also for the vehicle tests systems as described in documents D1 to D4.

Claim 21, 43: It is well known for determining e.g. the complex impedance of electrical systems to be tested to take the phase relation of measured currents and voltages into account. In cases where no simultaneous measurements of said values are possible a skilled person would think of compensating the measurement delay.

Clarity

The application does not meet the requirements of Article 6 PCT, because in claim 5 the abbreviation "OBD databus" is not clear.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information	<p>For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.</p>
Amending claims under Art. 19 PCT	<p>Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.</p>
Filing a demand for international preliminary examination	<p>In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/ WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).</p> <p>If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).</p>
Filing informal comments	<p>After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.</p>
End of the international phase	<p>At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).</p>
Relevant PCT Rules and more information	<p>Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003</p>

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